



1/3

# SEQUENCE LISTING

<110> Sklar, Pamela  
Lander, Eric S.  
McInnis, Melvin G.  
DePaulo, Jr., J. Raymond  
Willour, Virginia  
Potash, James

<120> ASSOCIATION OF DOPAMINE BETA-HYDROXYLASE  
POLYMORPHISMS WITH BIPOLAR DISORDER

<130> 2825.2012-004

<140> US 10/054,678

<141> 2002-01-22

<150> US 09/852,967

<151> 2001-05-10

<150> US 60/202,910

<151> 2000-05-10

<160> 2

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 2725

<212> DNA

<213> Homo sapiens

<400> 1

tcagtcgctg	ggccagcctg	cccggcccca	gcatgcggga	ggcagccttc	atgtacagca	60
cagcagtggc	catcttctg	gtcatcctg	tggccgcact	gcagggtcgc	gctccccgtg	120
agagccccc	cccctatcac	atccccctg	accggagg	gtccctggag	ctctcatgga	180
atgtcagcta	caccaggag	gccatccatt	tccagctcct	ggtgcggagg	ctcaaggctg	240
gcgtcctgtt	tgggatgtcc	gaccgtggcg	agcttgagaa	cgcagatctc	gtggtgctct	300
ggaccgatgg	ggacactgcc	tattttgcgg	acgcctggag	tgaccagaag	gggcagatcc	360
acctggatcc	ccagcaggac	taccagctgc	tgcaggtgca	gaggacccca	gaaggcctga	420
ccctgctttt	caagaggccc	tttggcacct	gcgaccccaa	ggattacctc	attgaagacg	480
gcactgtcca	cttgggtctac	gggatcctgg	aggagccggt	ccggtcactg	gaggccatca	540
acggctcggg	cctgcagatg	gggctgcaga	gggtgcagct	cctgaagccc	aatatccccg	600
aaccggagtt	gccctcagac	gcgtgcacca	tggaggtcca	agctcccaat	atccagatcc	660
ccagccagga	gaccacgtac	tgggtgtaca	ttaaggagct	tccaaagggc	ttctctcggc	720
accacattat	caagtacgag	cccatcgtea	ccaagggcaa	tgaggccctt	gtccaccaca	780
tgggaagtctt	ccagtgcgcc	cccagatgg	acagcgtccc	ccacttcagc	gggccctgcg	840
actccaagat	gaaacccgac	cgcctcaact	actgccgcca	cgtgctggcc	gcctgggccc	900
tgggtgccaa	ggcattttac	taccagagg	aagccggcct	tgccttcggg	ggtccagggt	960
cctccagata	tctccgcctg	gaagtctact	accacaaccc	actggtgata	gaaggacgaa	1020
acgactcctc	aggcatccgc	ttgtactaca	cagccaagct	gcggcgcttc	aacgcgggga	1080
tcattggagct	gggactggtg	tacacgccag	tgatggccat	tccaccacgg	gagaccgcct	1140
tcacctcacc	tggtactgc	acggacaagt	gcaccagct	ggcactgcct	ccctccggga	1200
tccacatctt	cgctctcag	ctccacacac	acctgactgg	gagaaagggtg	gtcacagtgc	1260
tgggtccggga	cggccgggag	tgggagatcg	tgaaccagga	caatcactac	agccctcact	1320
tccaggagat	ccgcatgttg	aagaaggctg	tgtcgggtcca	tccgggagat	gtgctcatca	1380
cctcctgcac	gtacaacacg	gaagaccggg	agctggccac	agtggggggc	ttcgggatcc	1440

```

tggaggagat gtgtgtcaac tacgtgcact actaccccca gacgcagctg gagctctgca 1500
agacggctgt ggacgccggc ttcctgcaga agtacttcca cctcatcaac aggttcaaca 1560
acgaggatgt ctgcacctgc cctcaggcgt ccgtgtctca gcagttcacc tctgttccct 1620
ggaactcctt caaccgcgac gtactgaagg ccctgtacag cttegcgccc atctccatgc 1680
actgcaacaa gtcctcagcc gtccgcttcc aggggtgaatg gaacctgcag cccctgcccc 1740
agggtcatctc cacactggaa gagcccaccc cacagtgcc caccagccag ggccgaagcc 1800
ctgctggccc caccgttgctc agcattggtg ggggcaaagg ctgagggggg acctactcct 1860
ccccctcctc catgtgttcc ctgtgggctc acaccggcac tgtgcactct actctgcgac 1920
gatccccatg gaacagccct gcacgcccag gatgaagggg ccagaccacg cccctgcctg 1980
agaccacggt ccaatccagc cttcttcccc caggggtccc tgcattggctg agaggggtgtg 2040
gggtgccctgt tgacctacc tggaccgagt ggaccacgac ctctgtccatt taaaccggc 2100
tgactcagtg cagggacagc ccgcacagtg gtccagggtc cagccctccg ccagccctgt 2160
tccgcctcac tgggtgtggc ctggcttctg ggacaggcac catgctgggc cgggggtgtgg 2220
aatcaccggg aacgcccccg cccccgcccc gctgctccc gtgtgcagcg ggtgcgggtg 2280
ccgcttaaac atttccctgc tgagtggctc agtgttcaca gtgggcggct tccctgcgac 2340
ggaggcagga ccaggcattt agctagttag agactgcct gggaaattgc tccattcctg 2400
agtaaacaga tattttcgcc cacctaaagg gaagccctga caacaactat caccaaaaga 2460
cgaggcggca aagatccagc ggggcttctg ggcgccgggt ccacgtgggg tggattatt 2520
agcaccagct tgcttctctg ccggtggggc cagcgctgaa cagaccgggg tggagtcagg 2580
gctgtgcttt ccgcgtgggt ctgccactta gggagtgtgc cttgggcggg ccatttcaca 2640
ttcctgaccc tcacttttct catctgtaaa accaggctga tgccgtgcgg gctaattgagc 2700
caataaagct cacacttggg ctggc 2725

```

<210> 2  
 <211> 603  
 <212> PRT  
 <213> Homo sapiens

```

<400> 2
Met Arg Glu Ala Ala Phe Met Tyr Ser Thr Ala Val Ala Ile Phe Leu
1          5          10          15
Val Ile Leu Val Ala Ala Leu Gln Gly Ser Ala Pro Arg Glu Ser Pro
20          25          30
Leu Pro Tyr His Ile Pro Leu Asp Pro Glu Gly Ser Leu Glu Leu Ser
35          40          45
Trp Asn Val Ser Tyr Thr Gln Glu Ala Ile His Phe Gln Leu Leu Val
50          55          60
Arg Arg Leu Lys Ala Gly Val Leu Phe Gly Met Ser Asp Arg Gly Glu
65          70          75          80
Leu Glu Asn Ala Asp Leu Val Val Leu Trp Thr Asp Gly Asp Thr Ala
85          90          95
Tyr Phe Ala Asp Ala Trp Ser Asp Gln Lys Gly Gln Ile His Leu Asp
100         105         110
Pro Gln Gln Asp Tyr Gln Leu Leu Gln Val Gln Arg Thr Pro Glu Gly
115         120         125
Leu Thr Leu Leu Phe Lys Arg Pro Phe Gly Thr Cys Asp Pro Lys Asp
130         135         140
Tyr Leu Ile Glu Asp Gly Thr Val His Leu Val Tyr Gly Ile Leu Glu
145         150         155         160
Glu Pro Phe Arg Ser Leu Glu Ala Ile Asn Gly Ser Gly Leu Gln Met
165         170         175
Gly Leu Gln Arg Val Gln Leu Leu Lys Pro Asn Ile Pro Glu Pro Glu
180         185         190
Leu Pro Ser Asp Ala Cys Thr Met Glu Val Gln Ala Pro Asn Ile Gln
195         200         205
Ile Pro Ser Gln Glu Thr Thr Tyr Trp Cys Tyr Ile Lys Glu Leu Pro
210         215         220
Lys Gly Phe Ser Arg His His Ile Ile Lys Tyr Glu Pro Ile Val Thr
225         230         235         240

```

Lys	Gly	Asn	Glu	Ala	Leu	Val	His	His	Met	Glu	Val	Phe	Gln	Cys	Ala
				245					250					255	
Pro	Glu	Met	Asp	Ser	Val	Pro	His	Phe	Ser	Gly	Pro	Cys	Asp	Ser	Lys
			260					265					270		
Met	Lys	Pro	Asp	Arg	Leu	Asn	Tyr	Cys	Arg	His	Val	Leu	Ala	Ala	Trp
			275				280					285			
Ala	Leu	Gly	Ala	Lys	Ala	Phe	Tyr	Tyr	Pro	Glu	Glu	Ala	Gly	Leu	Ala
			290				295				300				
Phe	Gly	Gly	Pro	Gly	Ser	Ser	Arg	Tyr	Leu	Arg	Leu	Glu	Val	His	Tyr
305					310					315					320
His	Asn	Pro	Leu	Val	Ile	Glu	Gly	Arg	Asn	Asp	Ser	Ser	Gly	Ile	Arg
				325					330					335	
Leu	Tyr	Tyr	Thr	Ala	Lys	Leu	Arg	Arg	Phe	Asn	Ala	Gly	Ile	Met	Glu
			340					345					350		
Leu	Gly	Leu	Val	Tyr	Thr	Pro	Val	Met	Ala	Ile	Pro	Pro	Arg	Glu	Thr
			355				360					365			
Ala	Phe	Ile	Leu	Thr	Gly	Tyr	Cys	Thr	Asp	Lys	Cys	Thr	Gln	Leu	Ala
						375					380				
Leu	Pro	Pro	Ser	Gly	Ile	His	Ile	Phe	Ala	Ser	Gln	Leu	His	Thr	His
385					390					395					400
Leu	Thr	Gly	Arg	Lys	Val	Val	Thr	Val	Leu	Val	Arg	Asp	Gly	Arg	Glu
				405					410					415	
Trp	Glu	Ile	Val	Asn	Gln	Asp	Asn	His	Tyr	Ser	Pro	His	Phe	Gln	Glu
			420					425					430		
Ile	Arg	Met	Leu	Lys	Lys	Val	Val	Ser	Val	His	Pro	Gly	Asp	Val	Leu
			435				440					445			
Ile	Thr	Ser	Cys	Thr	Tyr	Asn	Thr	Glu	Asp	Arg	Glu	Leu	Ala	Thr	Val
						455					460				
Gly	Gly	Phe	Gly	Ile	Leu	Glu	Glu	Met	Cys	Val	Asn	Tyr	Val	His	Tyr
465					470					475					480
Tyr	Pro	Gln	Thr	Gln	Leu	Glu	Leu	Cys	Lys	Thr	Ala	Val	Asp	Ala	Gly
				485					490					495	
Phe	Leu	Gln	Lys	Tyr	Phe	His	Leu	Ile	Asn	Arg	Phe	Asn	Asn	Glu	Asp
			500					505					510		
Val	Cys	Thr	Cys	Pro	Gln	Ala	Ser	Val	Ser	Gln	Gln	Phe	Thr	Ser	Val
			515				520					525			
Pro	Trp	Asn	Ser	Phe	Asn	Arg	Asp	Val	Leu	Lys	Ala	Leu	Tyr	Ser	Phe
						535					540				
Ala	Pro	Ile	Ser	Met	His	Cys	Asn	Lys	Ser	Ser	Ala	Val	Arg	Phe	Gln
545					550					555					560
Gly	Glu	Trp	Asn	Leu	Gln	Pro	Leu	Pro	Lys	Val	Ile	Ser	Thr	Leu	Glu
				565					570					575	
Glu	Pro	Thr	Pro	Gln	Cys	Pro	Thr	Ser	Gln	Gly	Arg	Ser	Pro	Ala	Gly
			580					585					590		
Pro	Thr	Val	Val	Ser	Ile	Gly									